Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Monument No. 1 North**Mine ID: **247**

Navajo AUM North Central Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.039.0020

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Part I	Site Identification, Location and Status				
Site Names an	nd ID numbers as app	olicable			
Mine ID:	247				
Map ID:	NC39				
CERCLIS:	NNN000909267				
Navajo Aban	doned Mine Land Red	clamati	on Program: NA-02	210	
Local name / Aliases: Monument No. 1					
Chapter and	local area: Oljato				
County: Nav	ajo	State:	AZ		
Lat/Long:	36.950797135 N / -110.232758568 W				
Nearby road	and highway: Route 1	163	Local Post Office:	Oljato, AZ	
Surface Land Status: check one or more and provide ownership and contact information below					
Tribal Trust : Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land		
Subsurface Mineral Rights:					
No information on subsurface mineral rights ownership was found in the EPA/AUM Database					

Claim and operator information:

Historical documents identified the operator of the mine in 1953 as Charles Ashcroft, Sr. and L.J. Foutz, from 1953 to 1956 as Charles Ashcroft, Sr. and L.J. Foutz, from 1956 to 1957 as Copper Canyon Mining Industries, Inc., in 1960 and 1964 as Tom Holiday and Cecil Parrish Jr., and from 1960 to 1961 and 1964 to 1966 as A & B Mining Company. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 247

Highest gamma radiation measurement: 82,597 counts per minute (cpm)

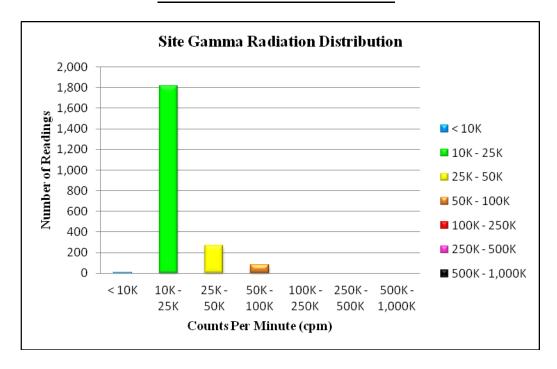
Background Average: 9,868 cpm **Two Times Background:** 19,736 cpm

Describe any other radiological measurements:

A total of 2,182 gamma radiation measurements were collected from the mine site, ranging from 8,403 cpm to 82,597 cpm. Maximum levels of approximately 50,000 cpm were found near the reclamation cap. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics				
Number of Readings	2,182			
Minimum (cpm)	8,403			
Maximum (cpm)	82,597			
Mean (cpm)	19,762			
Median (cpm)	16,146			
Standard Deviation	11,190			



Part III Status of Reclamation and Mine Waste

Mine ID: 247

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0210

NAMLRP Mine features: 2 Portals

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None Observed

Waste Piles:

None Observed

Pits:

None Observed

Shafts:

None Observed

Other Debris and Mine Features:

Reclamation cap (possible tailings), red clay, 150' wide X 75' long, along southwest slope

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None Observed

200 feet to 0.25 mile: None Observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None Observed

0.25 miles to 4 miles: 3.5 mi W - Water Well 8K-433; 4 mi SW - Well (519)

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Monument No. 1 North mine claim consists of an area of 17,993 m². The mine was identified as being operational from 1954 to 1966. While operational, the mine had a total reported production volume of 29,058 tons. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? $\rm No$

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

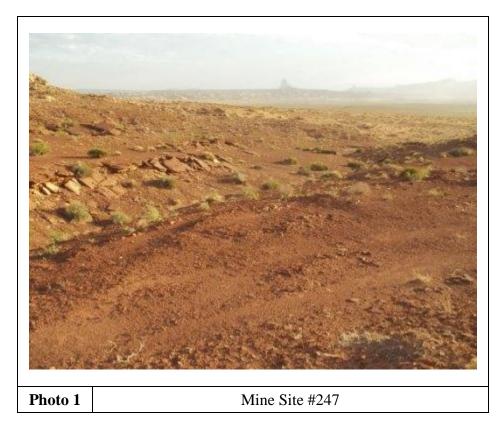
Were any potential drinking water sources observed within 4 miles of the mine? Yes

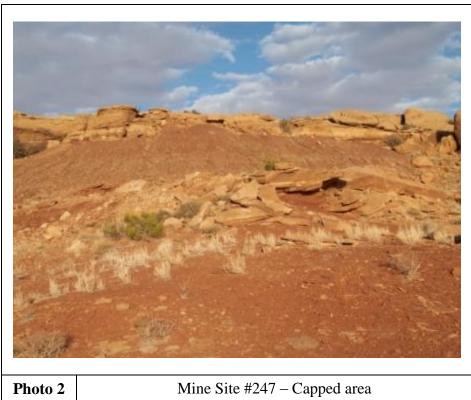
Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos





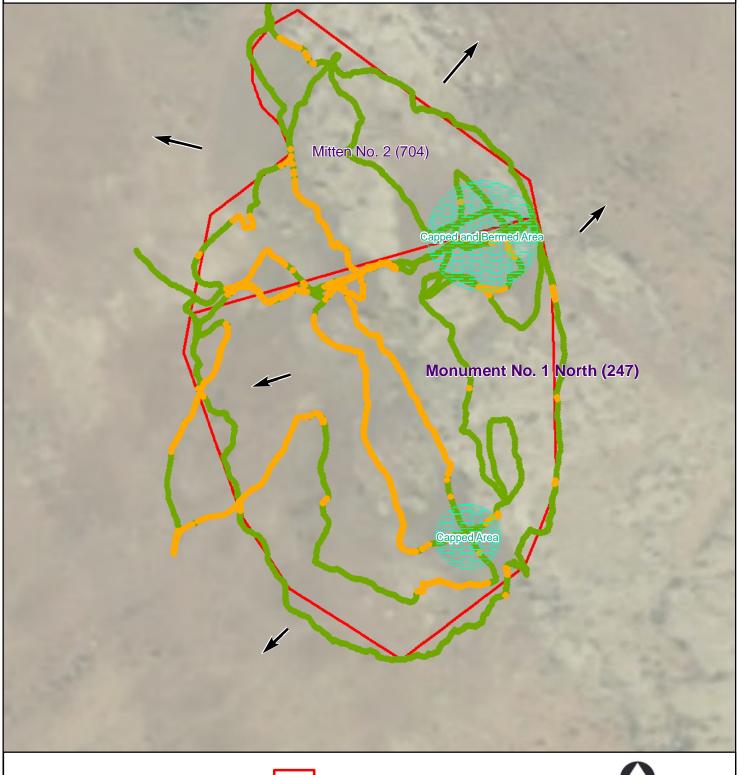




Part VII Contact Reports and Information

Name:	Eugene Esplain
Title or official role (if any):	Navajo EPA Superfund Program
Telephone number:	(928) 871-7331
Address:	PO Box 2946, Window Rock, AZ 86515
Information provided:	Lead Regulatory Agency
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Monument No. 1 North (247)
Oljato Chapter, Navajo Nation



Gamma Radiation Measurements

- < 2X Backgound</p>
- > 2X Background

Measured as counts per minute (cpm)

Average background 9,868 cpm







Feet

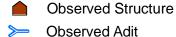
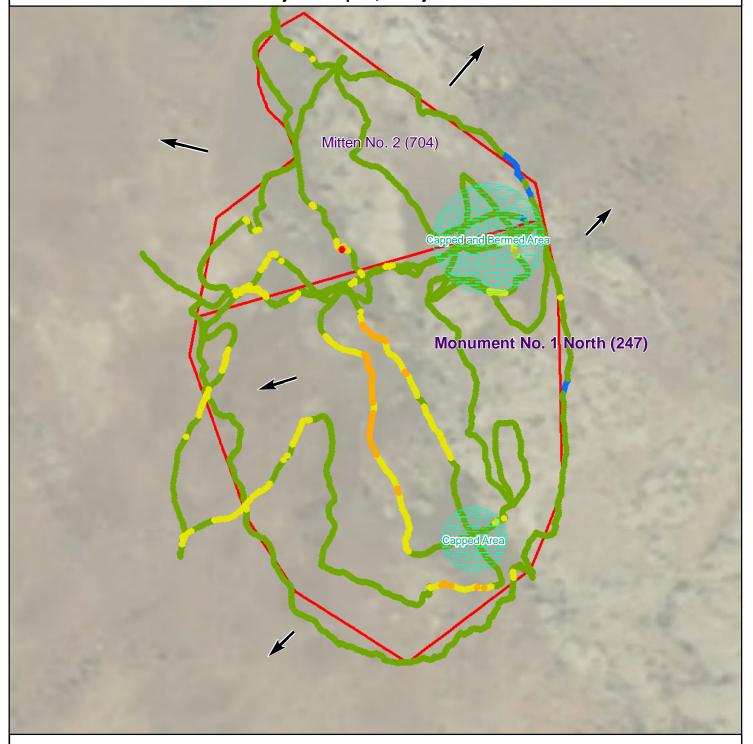




Figure 2 - Gamma Radiation Measurements Monument No. 1 North (247) Oljato Chapter, Navajo Nation



Gamma Radiation Measurements

- 0 10,000 cpm
- 10,000 25,000 cpm
- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm

Observed Waste Rock
Observed Structure
Observed Adit

Mine Site Boundary

General Slope Direction

Observed Reclamation Feature

Measured as counts per minute (cpm)



Average background 9,868 cpm